

XX. *A List of the Coleoptera of the Maltese Islands.* By MALCOLM CAMERON, M.B., R.N., and A. CARUANA GATTO, LL.D.

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IN publishing this contribution we trust that it may be of some service to collectors and those interested in the distribution of species.

We must acknowledge our indebtedness to the following gentlemen, who have been good enough to examine some of the species:—MM. Fauvel, Reitter, Pic, Régimbart, Desbrochers des Loges, Dr. David Sharp, and Mr. E. A. Newbery; also to Mr. G. C. Champion, who has kindly allowed us to see many species from the collection of Commander J. J. Walker, R.N., which had not been obtained by us, and which in the list are noted as Coll. J. J. W., or *teste* J. J. W. Names of species in brackets are those which have not come under our notice, although recorded by others.

The order and nomenclature adopted throughout is that of the "Cat. Col. Europæ" of Heyden, Reitter, and Weise (1891 edition).

The figures refer to the months.

#### GENERAL DESCRIPTION OF THE MALTESE ISLANDS.

The group of the Maltese Islands consists of the two islands of Malta and Gozo, and of the small islets of Comino, Cominotto, and Filfolà.

Malta, which is the main island, is  $17\frac{1}{2}$  miles in length and  $8\frac{1}{2}$  miles in breadth, its area being 95 square miles; Gozo is 9 miles in length,  $4\frac{1}{2}$  in breadth, and has an area of 20 square miles; Comino has an area of about 1 square mile, and Cominotto and Filfolà are even smaller.

They are situated almost at the centre of the Mediterranean; the distance from Capo Passero in Sicily is about 60 miles, and from the nearest point in Africa about 200 miles. Close to the African shore lies the island of Lampedusa, and further west, midway between Sicily and Africa, the islands of Linosa and Pantelleria. Both with

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regard to the flora and fauna all these islands bear a great affinity to the Maltese group, but, as may be supposed, the productions of the latter are even more allied to those of Sicily. As a matter of fact, the Maltese Islands, in their general appearance, are very much like the southern part of Sicily and the country about Syracuse, the only difference being the greater flatness of the land in Malta, and the want of trees and water-courses.

The climate, as lately well described by Mr. T. B. Fletcher, R.N., F.E.S.,<sup>1</sup> may be divided roughly into a wet and a dry season, the former beginning in October and ending in March, the latter including the remaining months. Showers of rain occur also in April, May, and September, but in June, July, and August they are much rarer. The average rainfall is over 20 inches, and the mean annual temperature is 65·6° Fahr.

The appearance of the islands in summer is extremely sterile and barren, mainly because, even where the soil is cultivated, the small fields are enclosed by numberless stone walls of loose stones, and the rocky wastes are almost devoid of all vegetation. The heat is then almost tropical, the temperature ranging from 75° to 90° in the shade.

In Malta there are no mountains, rivers, or marshes. The highest point in the islands is 758 feet above sea-level; the limestone cliffs on the west and south very often rise abruptly from the sea to a height of 300 or 400 feet. In Malta the land slopes gradually on the east to the water edge, forming numerous bays and harbours, and drops suddenly on the other side by a large "fault," which crosses the island from end to end at right angles to its long axis.

The place of rivers is taken by deep valleys, called "Wieds" in the Maltese language; and in these "wieds" during the rainy season water runs at the bottom, and pools of water may be found even afterwards, but in summer they are perfectly dry.

Some of these valleys, particularly those which are less cultivated, are very good collecting-grounds, and in the proper season trips to such valleys as L'Imtahlep, Jneina, Inquisitor's Palace, Bishop's Garden, Ta Baldu, Encita, Babu, El Ghasel, in Malta, and Migiarro, Xlendi, Ducira, in Gozo, besides affording a good harvest in insects and plants, are always very interesting and pleasant excursions.

<sup>1</sup> "Entomologist," vol. xxxvii, pp. 274-5.

One of the most noteworthy features of the islands is the want of trees. There must have been a time at some remote epoch in which trees and shrubs were not so scarce, and a certain amount of "bush," of which traces are still left, must have existed. At present the only indigenous trees and shrubs to be seen in some of the valleys just mentioned, not to speak of the rarer species, are the following:—*Cratægus oxyacantha* and *azarolus*, on which feeds *Rhamphus pubicarius*, Herbst; *Populus alba*, *Salix alba* and *pedicellata*, from which we obtained *Smieronycyaneus*, Gyll., a few *Quercus ilex*, *Pistacia lentiseus*, *Rosmarinus officinalis*, *Vitex agnus-castus*, *Tamarix africana*, (these two latter in Gozo), *Euphorbia dendroïdes*, *Erica multiflora*, *Rhamnus oleoides*, and *Cineraria maritima*, and *Inula erithmoides* on rocks near the sea. *Rubus fruticosus*, *Smilax aspera*, *Lonicera implexa*, *Clematis cirrhosa*, *Hedera helix*, and *Asparagus acutifolius* represent the climbing shrubs. Of cultivated trees, the Carob, *Ceratonia siliqua*, is generally spread, and with its dark evergreen foliage and low spreading branches marks in a characteristic way every Maltese landscape. Fig trees (*Ficus carica*) in several varieties and prickly pears (*Opuntia vulgaris*) are also widely grown by the walls in fields and country tenements. The cultivation of orange trees, which used to yield the finest and most luscious fruit in the world, is at present much neglected, on account of the scale-insect disease, and of the extensive free importation of oranges to Malta from Sicily and elsewhere. Vines are very abundant, and so are almond trees in some places, but though vineyards are to be met with in some places, woods, parks, and extensive groves are absolutely wanting.

The obvious result of this want of trees on Coleoptera, as may be seen in the list which follows, is the small number of Longicorns, other tree-borers and dendrophilous species. Considering that rivers, lakes, or any other permanent water-courses or open reservoirs are absolutely wanting, the presence of water-beetles may appear a puzzle. They are certainly not very numerous, but until the pools or streamlets at the bottom of the valleys dry up, the collector may successfully work for them among the *Charæ*, *Nitellæ*, and the fresh-water *Algæ* which then grow, or under stones at the water's edge. Chadwick's Reservoir or Wied el Klia, Fiddian, Marsa, Jneina, S. Martin, Boschetto,

Ghirghenti, may be pointed out as good localities for water and for water-loving beetles.

*Cicindela*, *Scarites*, *Dyschirius*, *Bembidia*, *Pogonus*, *Anisodactylus*, *Acupalpus*, *Dichirotrichus*, *Bledius*, *Phaleria*, *Trachyseelis*, *Opatrum*, *Clitobius*, and several *Anthici* are found in sandy and marshy places like Marsa, Salina, Melleha Bay, Marsa Scala, Birzebuggia, and Jneina. Umbellifers, *Chrysanthemum coronarium* and other composites, the Sulla (*Hedysarum coronarium*) yield a good harvest of *Anthrenus*, *Attugenus*, *Colotes*, *Ebanius*, *Attalus*, *Dasytes*, *Psilothrix*, *Haplocnemus*, *Dasytiscus*, *Sitones*, *Ceuthorrhynchus*, *Lubidostomus*, and *Mylabris*; whilst on *Cynara horrida* the *Larini*, *Tillus transversalis*, and the *Cetonix* may be collected. On *Asphodel Agapanthia asphodeli* is found; on *Rumex*, *Apion zencum* and *meridianum*; on *Asparagus*, *Crioceris puracanthesis*. *Podagricu* and *Apion malvæ* are found on Mallows, *Emenadia* on *Critimum*, *Chrysomela grossa* on *Nigella*, *C. bicolor* on *Thymus capitatus*, *C. americana* on *Rosmarinus*, *C. quadrigenina*, Suff., on *Hypericum crispum*, *Epilachna* on *Ecbalium*, *Lonyitarsus strungulatus* on *Ciucuraria maritima*, and *Epicomctis squalida* and *Leucocelis funestu* on all sorts of flowers.

A great number of species like *Pimelia*, *Tentyria*, *Stenosis*, *Akis*, *Scaurus*, *Asida*, *Phylax*, *Pentodon*, *Hypera*, *Gonocephalum*, *Silpha* and others are found in the country by the road-sides, and on waste ground, crawling about or under stones.

Every one knows where to look for *Atouchi*, *Ayhodii*, *Onthophagi*, *Histeridæ*, *Sapriini*, and many *Staphylinidæ*. The best time for collecting is, for autumnal species, from September, after the first rains, to the middle of November, and for spring species from February to June.

From February to April vegetation is at its best; Pheasant's-eye, *Asphodel*, *Ranunculi*, *Helianthem*, *Chrysanthemums*, *Poppies*, *Mallows*, the introduced but abundant *Oxalis cernua*, and the *Hedysarum coronarium* in fields are in full bloom. A great nuisance in sweeping plants and beating the small bushes is the extraordinary abundance of young snails to which beetles are found to be sticking in the net or on the tray.

By July all herbage is dried up, and on account of the burning sun and the parched-up soil, the collector has to limit himself to beating trees in some shady valley, or in gardens and cultivated fields. *Aulacophora abdominalis* is

then found on melon and cucumber plants. *Longitarsus*, *Aphthona*, *Phyllotreta*, *Sphæroderma*, *Demetrias atricapillus*, and many *Apions* may thus be obtained.

In autumn, besides stone-turning and looking in the débris washed down by rains, a ready way to obtain some good species is by beating or shaking on the tray the bundles of *Inula* and other plants which are bound together to dry, and left by the country people on the ground in fields or rocky places.

The distribution of species is very irregular; some of the most interesting and special forms are quite common, others have a very limited area of distribution, being local and very rare. Thus there is no difficulty in getting at the proper season—*Dasytiscus melitensis*, *Tentyria laticornis*, v. *leachi*, *Asida melitana*, *Phylax melitensis*, while *Læmosthenes picicornis*, *Bruchus durali*, *Thylacites beloni* are harder to obtain, and *Eurynebria complanata*, *Zuphium olens*, *Drypta distincta*, *Calosoma maderæ*, *Antharia umbellatarum*, *Saperda punctata*, *Callidium violaceum*, *Rhopalopus clavipes* have been found only in single specimens.

Very little information has been published about the Maltese Coleoptera.

George Waring, in his "Letters from Malta and Sicily" (1843), refers to a collection of beetles which in 1833 was being made in Malta by Dr. Leach, but it appears that unfortunately nothing was ever published about it.

In 1857 Prof. Gavino Gulia delivered a course of entomological lectures at St. Antonio, which were published in 1858; the determination of all species mentioned, however, is so doubtful, to say the least, that the list of species cannot be taken into any account.

One of us contributed to "The Mediterranean Naturalist," in 1893, an article on "The Common Beetles of the Maltese Islands," in which mention is made of about 135 species.

The only other published information which we know of is scattered through various entomological works, and consists mainly of the descriptions of several endemic species.

Far from pretending that the following is a complete list of Maltese beetles, we are sure that further researches and studies will bring out more species, especially among the Micro-Coleoptera; we believe, however, that we may



state that the bulk of the Maltese Coleopterous fauna is very fairly represented in our list, the more so considering that this is the first attempt to give a list of the beetles.

LIST OF COLEOPTERA OBSERVED IN THE  
MALTESE ISLANDS.<sup>1</sup>

CICINDELIDÆ.

*Cicindela (campestris)*, L., teste Gulia) *littoralis*, F.\*, Marsa, Mistra, Birzebuggia, Marsa Scala, Marsa Scirocco, Melleha, Ramla, Gozo, 4-9; *melancholica*, F., Marsa, 7, sunrise till 8 A.M.

CARABIDÆ.

*Calosoma maderæ*, F., Marsa, 7, Valletta, 7, two only. *Carabus morbillosus*, F.\*, general throughout the year. *Eurynebria complanata*, L., Melleha, 11, one only. *Nebria andalusica*, Ramb., general, 1-4, 11. *Notiophilus geminatus*, Dej.\*, general throughout the year. *Scarites arenarius*, Bon., St. George's Bay, 4-11, rare; *buparius*, Först., Melleha, Marfa, 3, 4, 5, 11, not common; *planus*, Bon.\*, Marsa, Fiddian, Melleha, Jniena, 4-11. *Dyschirius nitidus*, Schaum, Melleha, 11, common; *macroderus*, Chaud., Marsa Scala, 6, rare; *cylindricus*, Dej., St. George's Bay, 8, one only; *apicalis*, Putz., Marsa, Birzebuggia, 8, common. *Siagona europæa*, Dej., Melleha, 5, one only. *Bembidion ambiguum*, Dej.\*, general throughout the year; *præustum*, Dej.\*, Marsa, L'Imtahlep, Jniena, Marsa Scala, 5, 6, not common; *normannum*, Dej., Marsa Scala, Marsa Scirocco, St. George's Bay, 8, 9, common; *obtusum*, Sturm\*, general, 3-10; *guttula*, L., Jniena, Gniën el Gbir, 5, common; *biguttatum*, F.\*, Melleha, 4, 11, common. *Oeys harpaloides*, Serv., Gbir, Makluba, Attard, 5, 10, 11, common. *Tachys hamorrhoidalis*, Dej.\*, El Klia, Gozo, 6, common; v. *socius*, Schaum, with type; *unicolor*, Ragusa, El Klia, 6; *parvulus*, Dej., Valletta, spring; v. *quadriævus*, Reitt., with preceding; *fulvicollis*, Dej.\*, Marsa, Ghirghenti, 6-10, common; *bistriatus*, Duft, Marsa, 8, 9, 10, common; v. *gregarius*, Chaud., Marsa, 9, 10, common; *scutellaris*, Steph.\*, Marsa, Marsa Scala, St. George's Bay, Melleha, 4, 5, 9, 10; *algericus*, Luc.\*, Jniena,

<sup>1</sup> The species marked with an asterisk, as well as those specially noted, were obtained in Malta by Mr. J. J. Walker in 1874-5-6, almost exclusively between the months of October and March.

11. *Trechus subnotatus*, Dej., Marsa, 5, common. *Pogonus chalconus*, Marsh., Marsa, Fort Manoel, Melleha, St. George's Bay, common all the year. *Agonum atratum*, Duft., Gbir, Jniena, 4-11, common. *Olisthopus fuscatus*, Dej.\*; common throughout the year. *Bedelius circumseptus*, Germ., general, 4-10. *Calathus mollis*, Marsh., common throughout the year. *Læmosthenes picicornis*, Dej., Valletta, Wied Encita, Marsa, Boschetto, Melleha, Zurico, Gozo, 11-3, not common; *barbarus*, Luc., ex. Coll. J. J. W. *Amara anea*, De G., Coll. Walker; *curynota*, Panz., Gbir, 10, one example; *dalmatina*, Dej., Jniena, Ricasoli, Melleha, 10, 11, rare. *Acinopus ambiguus*, Dej.\*; Corradino, Tigné, Fort Manoel, Binjemna, Salina, Ricasoli, St. George's Bay, Attard, Gozo, not common, 4, 5, 9, 10, 11. *Aristus clypeatus*, Rossi\*, Corradino, El Klia, Naxaro, Marsa Scirocco, 4, 5, 10, not common. *Ditomus cordatus*, Dej.\*; San Martino, 11, two specimens; *calydonius*, Rossi\*, Jniena, L'Imtahlep, Encita, Wied Dalam, 1-4, 11, not common; *tricuspidatus*, F.\*; Ghirghenti, Gbir, 5, rare. *Carterus fulvipes*, Dej., Imtarfa, L'Imtahlep, 7, common. *Scybalicus oblongiusculus*, Dej., Jniena, 11, Gbir, 7, 9, rare. *Ophonus meridionalis*, Dej.\*; everywhere, 3-6, 10, 11; *pubescens*, Müll., Gbir, 6, 7, 9; *griseus*, Panz., Gbir, 6, 8. *Harpalus tenebrosus*, Dej., Jniena, Attard, Ricasoli, Salina, Notabile, 5, 8, 10, not common. *Anisodactylus paxilloides*, Steph.\*; Marsa, Melleha, 3-6, not common. *Dichirotrichus obsoletus*, Dej.\*; St. George's Bay, Marsa Scirocco, Jniena, Melleha, 1, 4, 9, 10, 11, not rare. *Bradycellus verbasci*, Duft., Coll. Walker. *Stenolophus teutonius*, Schr., everywhere, 2-11; *skrimshiranus*, Steph., Gozo, 7, one example; *marginatus*, Dej.\*; Marsa, El Klia, St. George's Bay, 7, 8, rare. *Acupalpus brunnipes*, Sturm, Salina, 6, one example; (*bistriga*, Rtrr., "Cat. Col. Europ."); *dorsalis*, F.\*; Jniena, 10; *v. discus*, Rtrr., El Klia; *immundus*, Rtrr., Jniena; *lucasi*, Gaubil\*, damp places everywhere, 8; *flavipennis*, Luc., Marsa, 10, one example. *Amblystomus levantinus*, Rtrr., Melleha, Marsa Scirocco, 11, not common; *cephalotes*, Rtrr., Jniena, 11, one example. *Licinus brevicollis*, Dej.\*; common throughout the year. *Chlænium azureus*, Duft.\*; Marsa, 6, 7, 8, rare; *variegatus*, Fourc., general, 2-10; *festivus*, F.\*; Ta Baldu, 11; *velutinus*, Duft.\*; El Klia, 7; *circumseptus*, Duft., El Klia, 7, rare. *Metabletus exclamationis*, Mén., Gbir, 5, 6, rare. *Blecherus glabratus*, Duft.\*; everywhere throughout the year; *plagiatus*, Duft.\*; Marsa, Melleha, El Klia, 7, 8, 11, not un-

common. *Dromius linearis*, Ol., Fort Manoel, St. George's Bay, 10; *quadrinaculatus*, L., Jniena, rare. *Demetrius atricapillus*, L.\*, everywhere, 4-11. *Cymindis suturalis*, Dej., Fort Manoel, 5, one only. *Zuphium olens*, F., Jniena, 11, one only. *Drypta dentata*, Rossi, Ta Baldu, 11, rare; *distincta*, Rossi, Jniena, 11, one only.

## DYTISCIDÆ.

*Haliplus lineatocollis*, Marsh., Marsa, St. George's Bay, El Klia, Gozo, 3, 4, 9, common. *Calumbus confluentis*, F., El Klia, 10, common. *Deronectes ceresyi*, Aubé, Salina, 7, common. *Hydroporus varius*, Aubé, St. Paul's Bay, El Klia, Fidian, Gozo, 6, 8, 11, common; *tessellatus*, Drap., v. *humilis*, Klug, general, 1-5, 10. *Laccophilus interruptus*, Pz., v. *testaceus*, Aubé, El Klia, 10. *Agabus nebulosus*, Först., El Klia, Melleha, 4. *Cymatopterus fuscus*, L., El Klia, 6. *Meladema coriaceum*, Lap., El Klia, St. Paul's Bay, 5, 8, 10, common. *Dytiscus circumflexus*, F., a single specimen was found alive in the Grand Harbour in 1890.

## HYDROPHILIDÆ.

*Helochares dilutus*, Er., El Klia, common, 6-10. *Anacana ovata*, Reiche, Jniena, Melleha, Gozo, 5, 6. *Laccobius bipunctatus*, F., El Klia, Gozo, 7, 10. *Berosus affinis*, Brull., El Klia, Mistra, St. George's Bay, common, 6, 9, 10. *Cereyon depressus*, Steph., Marsa Scala, 7, 8, common; *ustulatus*, Preyss., Coll. J. J. W.; *flavipes*, F., Coll. J. J. W.; *quisquilius*, L.\*, everywhere, 3, 4, 6, 7; *centrimaculatus*, Sturm, Coll. J. J. W. *Sphæridium bipustulatum*, F.\*, general, 1, 3, 7. *Colostoma orbiculare*, F., Gozo, Migiarro, 6, 7, common. *Dactylosternum insulare*, Lap., Ghirghenti, 10, rare. *Helophorus rugosus*, Ol.\*, El Klia, 3, not common; *poreulus*, Bedel, Gbir, 4, 5, 6, rare; *alternans*, Gené\*, El Klia, 3; *aquaticus*, L.\*, general, 3-11; *dorsalis*, Marsh.\*, v. *emaciatius*, Kuw., St. Paul's Bay, 10, 11, rare; *algericus*, Bach., St. Paul's Bay, 11; *pallidipennis*, Motsch., v. *reitteri*, Kuw., Wied Ghormor, Gbir, L'Intablep, 3-5. *Ochthebins quadricolis*, Muls., L'Intablep, 5, common; *subintegerr*, Muls., L'Intablep, 5, rare; *foveolatus*, Germ., Marsa Scala, 8, common; *exaratus*, Muls., Jniena, 11, rare; *lanuginosus*, Reiche, one example; *maculatus*, Reiche, ex. from J. J. W.; *impressicollis*, Lap., Ta Baldu, 10, common; v. *imperfectus*, Kuw., Boschetto, 7, rare. *Hydrana nigrata*, Germ., Ta Baldu, 11, rare.



## PARNIDÆ.

*Parnus algericus*, Luc., L'Imtahlep, Ghirghenti, Fiddian, Gbir, 3, 4, 10, 11, not common.

## HETEROCERIDÆ.

*Heterocerus melitensis*, Rtrr.\*, general, 5, 6, 7.

## STAPHYLINIDÆ.

*Chilopora longitarsis*, Er., Salina, 5. *Calodera hierosolymitana*, Saule.\*, Jniena, Ta Baldu, 3. *Phloxopora corticalis*, Grav. var., Coll. J. J. W. *Ocyusa nigrata*, Fairm., Coll. J. J. W. *Oxyypoda ambigena*, Fauvel, Coll. J. J. W.; *umbrata*, Gyll., L'Imtahlep, 5, not common; *sericca*, Heer, Coll. J. J. W.; *recondita*, Kr., Coll. J. J. W.; *hamorrhœa*, Sahlb., Melleha, 11, rare. *Alcochra clavicornis*, Redt.\*, Melleha, 6, not common; (*aurovilloso*, Jek.); *puberula*, Klug, Coll. J. J. W.; *bipunctata*, Ol.\*, Marsa, 5; *crassa*, Baudi, Jniena, 6, not common; *morion*, Grav., Coll. J. J. W.; *crassiuscula*, Sahlb.\*, general, 10; *tristis*, Grav., Coll. J. J. W.; *nigerrima*, Kr., Jniena, 6; *masta*, Grav. var. ?, ? locality; *nitida*, Grav.\*, general. *Myrmecia rigida*, Er., Ta Baldu, Jniena, Ghirghenti, rare, 5, 6. *Alianta plumbea*, Wat., Jniena, 6. *Halobrectha atrivilla*, Er.\*, Melleha, 11; *algæ*, Hardy, Melleha, 11. *Colpodota sordida*, Marsh.\*, Melleha, 11, common; *aterrima*, Gr., ? locality; *nigerrima*, Aubé, Jniena, 7; *fungi*, Grav.\*, v. *orbata*, Er., general, 2-5, 9-11. *Amischa analis*, Grav., El Klia, 10, not common. *Geostiba plicatella*, Fauv.\*, Jniena, 11, not common. *Atheta pertyi*, Heer\*, general, 10; *oraria*, Kr., Coll. J. J. W.; *xanthopus*, Thoms., Coll. J. J. W.; *oblita*, Er., Melleha, 11, rare; *meridionalis*, Rey, Jniena, 11, common; *atramentaria*, Gyll., general; *nigricornis*, Thoms.\*, teste J. J. W.; *zosteræ*, Thoms., Ta Baldu, 5, one example; *amicula*, Steph.\*, Binjemma, Jniena, 10, 11, common; *longula*, Heer, Jniena, 6, common. *Alocosoma gregaria*, Er.\*, everywhere. *Tomoglossa luteicornis*, Er., L'Imtahlep, 6, rare. *Dilacra luteipes*, Er., Ta Baldu, 5. *Gnypteta labilis*, Er., Concessione, 5, El Klia, 6. (*Tachyusa cingulata*, Jek.) *Myrmecopora læsa*, Er., Marsa, Marsa Scala, 6; *uvula*, Er., Marsa Scala, 6; *sulcata*, Kies., Jniena, 6. *Fulagria sulcata*, Payk.\*, Boschetto, 6; *obscura*, Grav.\*, everywhere. *Actocharis marina*, Fauv., Jniena, 9. *Pronomæa rostrata*, Er., Ghirghenti, 6, rare. *Myllaena kraatzi*, Sharp, L'Imtahlep, Ta Baldu, 5, Jniena, 10. *Oligota pusillima*,

Grav.\*, Gbir, Jniena, Binjemma, 10, common. *Hypocyptus seminulum*, Er., St. Paul's Bay, Boschetto, 6, common. *Leucoparyphus silphoides*, L.\*, St. Paul's Bay, 6, rare. *Tachyporus hypnorum*, F.\*, general; v. *meridionalis*, Fairm., general; *nitidulus*, F.\*, general. *Conurus pubescens*, Payk.\*, Fort Manoel, Marsa, 5; *pedicularius*, Grav.\*, Binjemma, 10, not common. *Mycetoporus nanus*, Er., Gbir, 10, rare; *punctipennis*, Scriba, Coll. J. J. W.; *reichi*, Pand.\*, ex Coll. Walker. *Quedius molochinus*, Grav.\*, Gbir, Ghirghenti, 6, 9, common; *obliteratus*, Er.\*, general, 9, 10. *Croophilus marillosus*, L., general. *Ocyptus olens*, Müll., everywhere; *anucocephalus*, Deg., general, 4, 10, 11; *dentulus*, Block, Gbir, 10, common. *Cafius xantholoma*, Grav., Marsa Scala, 6, Melleha, 11; *sericeus*, Holme, Marsa Scala, 6. *Philonthus politus*, L., Gbir, 6, rare; *sordidus*, Grav.\*, Boschetto, 5, common; *ventralis*, Grav.\*, Melleha, 6, not common; *discoideus*, Grav.\*, Fiddian, 10; *corruscus*, Grav., not common; *ebeninus*, Grav., everywhere; *finctarius*, Grav.\*, Coll. J. J. W.; *nigritulus*, Grav., everywhere; *thermarum*, Aubé\*, v. *maritimus*, Motsch., Jniena, Marsa, 10, not common; *laticollis*, Fauv., Boschetto, 6, Gbir, 10, common; *longicornis*, Steph.\*, Boschetto, L'Imtahlep, 5, 6, common; *varians*, Payk.\*, not common; *ugilis*, Grav., Boschetto, 6, not common. *Othius laeviusculus*, Steph., here and there, not common. *Leptacinus parumpunctatus*, Gyll., St. Paul's Bay, El Klia, 6, rare; *batychrus*, Gyll.\*, Marsa, 7, rare. *Eulissus fulgidus*, F.\*, general, 3-10. *Xantholinus punctulatus*, Payk., general; *hesperus*, Er., Zurico, 12, two examples. *Lathrobium lusitanicum*, Er.\*, Jniena, 10, not common. *Achenium striatum*, Latr., Jniena, 10, not common; *tenellum*, Er., Jniena, not common; *brevipenne*, Qued., teste J. J. W. *Medon piceus*, Kr., Coll. J. J. W.; *nigritulus*, Er.\*, general; *ochraceus*, Grav.\*, general. *Scopæus gracilis*, Sperk., El Klia, 10, Marsa, 8, rare; *debilis*, Hoch., El Klia, 10, rare; *laevigatus*, Gyll.\*, Ghirghenti, 6, rare. *Domene stilicina*, Er.\*, Jniena, 11, not common. *Stilicus orbiculatus*, Payk., general. *Sunius*, n. sp., Ta Baldu, 11, one example; *uniformis*, Duv., Coll. J. J. W.; *bimaculatus*, Er., common, 7; *melanurus*, Küst.\*, not common, 9; *walkeri*, Fauv.\*, Binjemma, 10, Fort Manoel, 10, very rare; *angustatus*, Payk.\*, common, 5, 7, 11. *Stenus melanopus*, Marsh.\*, Marsa, Melleha, 4, 5, 10, 11, common; *nigritulus*, Gyll.\*, v. *lepidus*, Ws., common, 6; *languidus*, Er.\*, common, 6, 10. *Platystellus cornutus*, Gyll., Coll. J. J. W.; *spinus*, Er.\*, Jniena, 10, not common;

*nitens*, Sahlb.\*; Jniena, 11, Marsa, 10, common. *Oxytelus sculptus*, Grav.\*; Boschetto, 5, Marsa, 11; *inustus*, Grav., common; *sculpturatus*, Grav., Coll. J. J. W.; *nitidulus*, Grav., common; *complanatus*, Er.\*; Jniena, 10; *speculifrons*, Kr.\*; common. *Bledius fureatus*, Ol., St. George's Bay, 8, not common; *graellsii*, Fauv., Coll. J. J. W.; *tricornis*, Hbst., Marsa, 9, 10, not common; *corniger*, Rosenh., Salina, 6, common; *unicornis*, Germ.\*; common; *debilis*, Er., Melleha, 11, one example. *Trogophleus riparius*, Lac., L'Imtahlep, Jniena, 6; *bilineatus*, Er., Coll. J. J. W.; *memnonius*, Er.\*; Marsa, 7, common; *corticinus*, Grav.\*; Gbir, 9, common; *trogodytes*, Er.\*; Melleha, 11, rare; *punctipennis*, Kies., L'Imtahlep, Marsa, 6, 7, common; *alutaceus*, Fauv., Marsa, 7, common; *pusillus*, Grav., El Klia, 5; n. sp., El Klia, 5, Melleha, 11, two examples. *Onalium allardi*, Fairm., Coll. J. J. W. *Pycnoglypta rufula*, Er.\*; Valletta, Zurico, Gozo, 1, 11, 12. *Protinus atomarius*, Er.\*; here and there. *Megarthus affinis*, Mill.\*; Encita, 4, rare.

## MICROPEPLIDÆ.

*Micropeplus porceatus*, Payk.\*; Encita, 4, rare.

## PSELAPHIDÆ.

*Bryaxis cameroni*, Rtrr., 5-9, common; *globulicollis*, Rey, Salina, 6, Marsa Scala, 6, common; *opuntiae*, Schmidt, Jniena, 11, common. *Euplectus brunneus*, Grim., Coll. J. J. W.

## SCYDMENIDÆ.

*Cyrtoscydmus*, n. sp.\*; Fort Manoel, 10, rare. *Scydmænus tarsatus*, Müll.\*; Gbir, 5, rare; *antiolotus*, Germ.\*; Marsa Scala, 11, rare; ? sp. n., Marsa, one example.

## SILPHIDÆ.

*Catops morio*, F\*, Marsa, rare; *Pltomophagus sericatus*, Chaud., Fort Manoel, 5, one example. *Silpha olivieri*, Bedel\*, general, 1-6, 11, 12.

## ANISTOMIDÆ.

*Hydnobius demarchii*, Rtrr., one example. *Agathidium lævigatum*, Er., Coll. J. J. W.

## CLAMBIDÆ.

*Calyptomerus dubius*, Marsh., Binjemma, 10. *Cybocephalus politus*, Germ., Boschetto, 5, Gozo, 6, common.

## CORYLOPHIDÆ.

*Parmalus nanus*, Rey, general; *densatus*, Rtrr., general. *Sericoderus lateralis*, Gyll., L'Imtahlep, 5.

## TRICHOPTERYGIDÆ.

*Ptenidium pusillum*, Gyll., Ghirghenti, St. Paul's Bay, 6, common. *Actidium aterrimum*, Motsch., Birzebuggia, 7. *Actinopteryx fucicola*, Allib., Marsa Scala, M. Scirocco, 8, common. *Trichopteryx brevipennis*, Er., L'Imtahlep, 5; *sericans*, Heer, Melleha, 7, common.

## PHALACRIDÆ.

*Phalacrus finctarius*, F., general, 3-11; v. *minor*, Guill., Coll. J. J. W.; *substriatus*, Gyll., Marsa Scala, 7, rare. *Olibrus bimaculatus*, Küst., general, 5, 9, 10; *liquidus*, Er., Marsa Scala, 8, common; *affinis*, Sturm\*, common; *pygmaeus*, Sturm\*, not common. *Stilbus testaceus*, Panz.,\* very common.

## ENDOMYCHIDÆ.

*Myrmecoxenus picinus*, Aub., St. Paul's Bay, 6, common. *Symbiotes gibberosus*, Luc.\*, Gbir, 10.

## CRYPTOPHAGIDÆ.

*Cryptophilus integer*, Heer\*, Boschetto, 6. *Leucohimatium elongatum*, Er., Coll. J. J. W. *Cryptophagus thomsoni*, Rtrr., Jniena; *scenicus*, L., Ta Baldu, 6; *vini*, Panz., Ghirghenti, 6. *Atomaria unifasciata*, Er., Valletta; *scutellaris*, Motsch, Melleha, 11. *Ephistemus globulus*, Payk., Jniena, 9.

## LATHRIDIDÆ.

*Merophysia fornicaria*, Luc., Fort Manoel, 5, rare. *Holoparanecus bertouti*, Aub., Marsa Scala, 6, common; *niger*, Aub.\*, Melleha, 11, common; *caularum*, Aub., Coll. J. J. W.; *singularis*, Beck, on board in Grand Harbour. *Enicmus minutus*, Er., Coll. J. J. W.; *transversus*, Ol.\*, common throughout the year. *Cartodere elegans*, Aubé, Gbir, 5, one example. *Melanophthalma sericca*, Mann.,

Fort Manoel, 10; *distinguenda*, Com.\*, common throughout the year; *fulvipes*, Com.\*, common throughout the year.

## TRITOMIDÆ.

*Litargus coloratus*, Rosh.\*, common throughout the year.  
*Typhæa fumata*, L., Fort Manoel, 5.

## NITIDULIDÆ.

*Cercus rufilabris*, Latr., Ta Baldu, 5, common. *Brachypterus glaber*, Newm.\*, common, 5; ? n. sp., one example. *Carpophilus immaculatus*, Luc.\*, Boschetto, 6; *mutilatus*, Er., common throughout the year; *hemipterus*, L., common throughout the year. *Nitidula flavomaculata*, Rossi, Marsa, 10, one specimen. *Pria dulcamara*, Scop., Gozo, 7, not common. *Meligethes picipes*, Sturm\*, Boschetto; *lugubris*, Sturm, Jniena, 6. *Rhizophagus bipustulatus*, F.\*, Zurico, 2.

## TROGOSITIDÆ.

*Tenebrioïdes mauritanicus*, L., common near granaries throughout the year.

## COLYDIDÆ.

*Ditoma crenata*, F., Coll. J. J. W. *Aglenus brunneus*, Gyll., Jniena, 10.

## CUCUJIDÆ.

*Læmophloeus ferruginus*, Steph.\*, very common throughout the year; *hypobori*, Perr., L'Imtahlep, St. Paul's Bay, 3, 4, 5, common. *Hypocoprus quadricollis*, Rtr., St. Paul's Bay, 6, common. *Xenoseclis costipennis*, Fairm.\*, Jniena, 10, not common. *Silvanus surinamensis*, L., common throughout the year. *Cathartus advena*, Waltl, Coll. J. J. W. *Monotoma spinicollis*, Aub.\*, St. Paul's Bay, 6, not common; *picipes*, Herbst\*, one example.

## DERMESTIDÆ.

*Dermestes frischii*, Kug.\*, very common, 4-10; *undulatus*, Brahm, Gozo, Encita, 3, 4, rare. *Attagenus piceus*, Ol.\*, v. *dalmatinus*, Küst., Valletta, 5, not common; *marginicollis*, Küst., not common; *bifasciatus*, Rossi\*, common, 3-6. *Anthrenus fasciatus*, Hbst., common, 3-6; *biscrensis*, Rtr., very common, 6, 7, 8; *verbasci*, L.\*, Boschetto, 6, not common; *fuscus*, Latr., Boschetto, 6, rare.



## CISTELIDÆ (= BYRRHIDÆ, olim).

*Syncalypta*, ? n. sp., Coll. J. J. W.

## THORICTIDÆ.

*Thorictus grandicollis*, Germ.\* , general.

## HISTERIDÆ.

*Hister major*, L.\* , here and there; *ventralis*, Marsh., Marsa, 5; *bimaculatus*, L., v. *morio*, Schmidt, here and there. *Carcinops minima*, Aub.\* , Marsa, 6; *14-striata*, Steph., St. Paul's Bay, 6. *Saprinus semipunctatus*, F., Melleha, Marsa Scala, 6; *chalcites*, Ill., Marsa Scala, 8; *nitidulus*, Payk.\* , Marsa Scala, 8; *pulcherrimus*, Web.\* , Salina, 3; *algericus*, Payk., rare; *spretulus*, Er., rare; *cribellaticollis*, Duv., Marsa, 7; *rubripes*, Er., Melleha, 11; *apicarius*, Er., rare; *dimidiatus*, Ill., rare. *Oonthophilus cvaratus*, Ill., Valletta, 11. *Acritus seminulum*, Küst.\* , St. Paul's Bay, 6.

## SCARABÆIDÆ.

*Scarabæus semipunctatus*, F., Melleha, 10-12, 1-3; *variolosus*, F., general. *Copris hispanus*, L., not uncommon. *Bubas bison*, L., Marsa, Ghirghenti, Melleha, early months of year; *bubalus*, Ol., Coll. J. J. W. *Chironitis hungaricus*, Hbst., Corradino, Wied el Klaja, 6, 8. *Oonthophagus taurus*, Schreb., not uncommon, Jniena, 10; *andalusiacus*, Waltl, not uncommon, Jniena, 10. *Oniticellus fulvus*, Goeze, not uncommon, Jniena, 7. *Aphodius fimctarius*, L., Attard, 10, Jniena, 6; *granarius*, L.\* , common; *hydrochæris*, F.\* , Marsa; *nitidulus*, F.\* , Jniena, Zibbih; *longispina*, Küst., Marsa, 9, Jniena, 6; *tersus*, Er., Marsa, 4; *lineolatus*, Ill.\* , Marsa, Corradino, 2; *consputus*, Creutz., Coll. J. J. W.; *unicolor*, Ol., Marsa, 5; *lividus*, Ol., Notabile, 8; *quadriguttatus*, Hbst., Coll. J. J. W. *Pleurophorus casus*\*, Panz., general. *Illysemus arenarius*, Costa, Coll. J. J. W. *Psammodyus sulcicollis*, Ill., Foit Manoel, 10; *porricollis*, Ill., Melleha, 10. *Diastictus vulneratus*, Sturm, Coll. J. J. W. *Trox hispidus*, Pont.\* , v. *asiaticus*, Fald., here and there. *Geotrupes douci*, Gory\* , general; *lævigatus*, F.\* , general. *Pentodon punctatus*, Villers\* , general. *Phyllognathus silenus*, F., Attard, 9. *Oryctes grypnus*, Ill., Attard, Marsa Scirocco, 10. *Epicometis squalida*, Scop.\* , general. *Leucocelis funesta*, Poda\* , general. *Potosia metallica*, F., v. *cuprea*, Gory, flowers of *Cynara horrida*, common, 6;

*angustata*, Germ.\*, flowers of *Cynara horrida*, rare.  
*Æthiessa floralis*, F., flowers, 6.

## BUPRESTIDÆ.

*Capnodis tenabrionis*, L.\*, Ghirghenti, 6, rare. *Anthaxia umbellatarum*, F., Gozo, 6. *Acmæodera discoidea*, F., Coll. J. J. W. *Agrius obscuricollis*, Kies., Musta, Boschetto, 6.

## ELATERIDÆ.

*Drasterius bimaculatus*, Rossi, Marsa, 10, 11, common.  
*Cardiophorus argiolus*, Gené\*, Ta Baldu, 6, common;  
*maulicrus*, Desbr.\*, v. *beloni*, Desbr., Gozo. *Athous castaneus*, Fairm., Attard, Gbir, Salina, 9, 11. *Isidus moreli*, Rey, Melleha, 6, rare.

## CEBRIONIDÆ.

*Cebrio gigas*, F., Ghirghenti, Attard, Melleha.

## CANTHARIDÆ.

*Lampyrus lareynici*, Duv., general, 6. *Malthinus scapularis*, Mars., not uncommon, St. Paul's Bay, 4. *Malthodes malcolmi*, Pic, Boschetto, 5; sp., Ta Baldu, 6; *ragusæ*, Fiori\*; *cameroni*, Pic, Gbir, 5, rare. *Drilus flavescens*, Rossi\*, Gozo. *Charopus apicalis*, Kiesw., Salina, 5. *Colotes maculatus*, Lap., general; *punctatus*, Er., St. Paul's Bay, 6. *Hypebæus flavicollis*, Er.\*, Ta Baldu, Boschetto, 5. (*Ebæus cyaneus*, Lap.) *Attalus melitensis*, Peyr., general, 5; var. with all femora testaceous,<sup>1</sup> Marsa, Ghirghenti, 5, 6; *erythroderus*, Er., Ta Baldu, 5. (*Malachius dissimilis*, Baudi.) *Henricopus scutellaris*, F., Salina, 6; v. *rufotestaceus*, Salina, 6. *Dasytes ærosus*, Kiesw., Barracca, 4. *Psilothrix cyaneus*, Oliv.\*, Gbir, 4, 5; *melanostoma*, Brull.\*, Gbir, 4, 5. *Haplocnemus melitensis*, Schilsky, Ta Baldu, 6. *Dasytiscus melitensis*, Bourg.\*, El Klia, Fiddian, 3, 6. *Danacæa pallipes*, Panz., Boschetto, 6.

## CLERIDÆ.

*Tillus transversalis*, Charp., L'Imtahlep, 5. *Necrobia ruficollis*, F.\*, here and there, 6, 10; *rufipes*, Degeer\*, general, 10.

## BRUCHIDÆ (= PTINIDÆ, olim).

*Gibbium boieldieui*, Levr., Valletta, 4, 5. *Niptus*

<sup>1</sup> This is the var. *testaceipes*, Pic, Ech. 1903, 169.

(*Microptinus*) *reitteri*, Pic, L'Imtahlep, 5. *Bruchus* (*Ptinus*) *spitzyi*, Villa, Jniena, 11; *affinis*, Desbr., Valletta, 3; *variegatus*, Rossi\*, Valletta; *duvali*, Lareyn., Coll. Gatto; *brevipilis*, Desbr., Boschetto, 6, Attard, 9; *reichei*, Boield., Jniena, 10.

## BYRRHIDÆ (= ANOBIIDÆ, olim).

*Byrrhus nitidus*, Hbst., Boschetto, 6; *hirtus*, Ill., Coll. Gatto; *panicus*, L.\*, Valletta. *Oligomerus reyji*, Bris.\*, Valletta. *Metholeus cylindricus*, Germ., St. Paul's Bay, 6. *Lasioderma hæmorrhoidale*, Ill.\*, Ta Baldu, 6; *bicolor*, Schauf., L'Imtahlep, 6; *bubalus*, Fairm., general; sp., Boschetto, 6; *testaceum*, Duft, Binjemma, 10.

## LYCTIDÆ.

*Lyctus brunneus*, Steph., Valletta.

## BOSTRYCHIDÆ.

*Xylopertha pustulata*, F., Coll. Gatto.

## TENEBRIONIDÆ.

*Erodium neapolitanus*, Sol., Melleha, 10-12, 1-3. *Tentyria sardoa*, Sol., Fort Manoel, Ricasoli; *lævigata*, Stev.\*, v. *leachi*, Baudi, everywhere. *Stenosia melitana*, Rtrtr.\*, pretty general. *Dichillus pertusus*, Kies.\*, Porto Reale, 3, very rare. *Helcnophorus collaris*, L.\*, here and there. *Akis melitana*, Rtrtr., common. *Scaurus striatus*, F.\*, common. *Blaps gigas*, L., not uncommon; *mucronata*, Latr.\*, not uncommon; (*forcicollis*, All.). *Asida melitana*, Rtrtr.\*, Valletta, Notabile, 10, 12. *Pinclia sardoa*, Sol., v. *subscabra*, Sol.\*, general. *Ocera angustata*, Sol.\*, 5-9, here and there. *Crypticus cameroni*, Rtrtr., Melleha, 10-12, 1-2. *Dendarus carinatus*, Muls., Ta Baldu, 10. *Phylax littoralis*, Muls., v. *melitensis*, Baudi\*, common. *Scleron abbreviatum*, Reiche, Coll. J. J. W. *Opatrum melitense*, Küst., Melleha, 11. *Gonocephalum sculosum*, Fald.\*, Marsa Scala; *rusticum*, Ol., Marsa, 8. *Penthius punctulatus*, Brull., Ricasoli, 10. *Annobius rufus*, Luc., Melleha, 7, 11. *Trachyseclis aphodioides*, Lat., Melleha, 11. *Phaleria acuminata*, Küst., Jniena, 6. *Pentaphyllus testaceus*, Hellw., Coll. J. J. W. *Tribolium ferrugineum*, F., Valletta, 10. *Corticus castaneus*, F., Coll. J. J. W.; *bicolor*, Ol., Coll. J. J. W. *Pithora crenata*, Germ.\*, Marsa, 8. *Echocerus cornutus*, F., general.

*Alphitobius diaperinus*, Panz.\*; Coll. Gatto. *Clitobius oratus*, Er.\*; Fort Manoel, 10. *Cossyphus insularis*, Lap., Jniena, 11. *Tenebrio molitor*, L., Imtarfa, 7, 8. *Calcear elongatum*, Hbst., Jniena, 11. *Helops pygmaeus*, Küst., Gbir, Jniena, 10, 11. *Gonodera nitidula*, Kiesw., Ta Baldu, 6. *Omophlus melitensis*, Baudi (*championi*, Rtrr.), pretty general, 4.

## MORDELLIDÆ.

*Mordellistena micans*, Germ., 4, 5, 6, general. *Anaspis varians*, Muls., Jniena, 6.

## RHIPIPHORIDÆ.

*Emenadia flabellata*, F., S. Giorgio, 8, 9.

## MELOIDÆ.

*Melœ violaceus*, Marsh.\*; here and there, 4, 5; *purpurascens*, Germ.\*; Musta, Marsa; *tuccius*, Rossi\*, here and there, 1, 2, 3, 5; *rugosus*, Marsh.\*; here and there, 2, 3. *Hapalus bimaculatus*, L., v. *caruanæ*, Rtrr.\*; Marsa, Marsa Scirocco, Attard, 1, 2.

## ANTHICIDÆ.

*Euglenes populneus*, Panz., Ta Baldu, 10. *Anthicus rodriguezii*, Latr.\*; Melleha, 11; *humilis*, Germ.\*; Marsa, 8; v. *lameyi*, Marsh., Marsa, 8; *minutus*, Laf.\*; Marsa, 8; *formicarius*, Goeze\*, Fort Manoel, 10; *instabilis*, Schm.\*; general; *opaculus*, Woll., Ghirghenti, 8, Fort Manoel, 10; *velox*, Laf., general, 5; 4-*guttatus*, Rossi\*, Marsa, St. Paul's Bay, 8; *hispidus*, Rossi\*, Marsa, Gbir, 10; *fenestratus*, Schm., Melleha, 7. *Anulocoderus melitensis*, Pic, flowers, 5, 6. *Ochthenomus tenuicollis*, Rossi\*, Jniena, Melleha, 10.

## CEDEMERIDÆ.

*Nacerrdes melanura*, L., here and there. *Cedemera simplex*, L., general, 6; *unicolor*, Schm., district uncertain, 6; *barbara*, F., L'Imtahlep, 5. *Stenostoma melitense*, Cam.<sup>1</sup> Jniena, 6.

## CURCULIONIDÆ.

*Otiorrhynchus affaber*, Boh., Jniena, rare; *lugens*, Germ.\*; general; *cribricollis*, Gyll., general. *Sciaphilus siculus*, Boh., ex. Coll. J. J. W. *Barypithes mollicornis*, Ahr. *Strophomorpha porcellus*, Sch., Jniena, Binjemma, 10, 11, rare.

<sup>1</sup> Ent. Mo. Mag. 1907, p. 226.

*Sitona carhecta*, Gyll., v. *setulifer*, Fahrs., Melleha; *intermedius*, Küst., Ta Baldu, 6; *cambricus*, Steph., Gbir, 5; *ocellatus*, Küst., Melleha, 5; *crinitus*, Hbst., locality unknown; *sericsetosus*, Fahrs., pretty general, 4, 5; *tibialis*, Hbst., Melleha, 5; *flavescens*, Marsh., v. *cinnamomeus*, All., Jniena, 6; *humeralis*, Steph., v. *discoideus*, Gyll., common; *virgatus*, Fahrs., Jniena, 5; *lineatus*, L.\*, common. *Trachyphleus laticollis*\*, Boh., St. Paul's Bay, 8; n. sp., Floriana. *Thylacites belloni*, Desbr., Marsa, 8. *Brachycerus algirus*, F.\*, general; *albidentatus*, Gyll., here and there; *undulatus*, F.\*, general. *Clonus maculicollis*, Chev.\*, Melleha, 5, not common; *mendicus*, Gyll., Fort Manoel, 10; *excoriatus*, Gyll., general; *cinereus*, Sch., Zibbih, 10; *madidus*, Ol.\*, Birzebuggia, 7. *Licus anguinus*, L.\*, Coll. Gatto; *algirus*, L.\*, general, 7; *junci*, Boh., Marsa, 8. *Larinus vittatus*, F., Boschetto, 5; *cynara*, F., v. *glabrivostris*, Sch., general on *Cynara horrida*; *flavescens*, Germ., general. *Rhynchylus conicus*, Fröhl., L'Intahlep, 5. *Gronops lunatus*, F.\*, Marsa, 10. *Rhytidoderes plicatus*, Oliv.\*, general. *Hypera philanthus*, Oliv.\*, pretty general, 7, 8; *erinita*, Boh., pretty general, 7, 8; *pastinacæ*, Rossi, Melleha, 10; *marina*, F., Ta Baldu, 10; *variabilis*, Hbst.\*, pretty general, 7, 8; *nigrirostris*, F.\*, Jniena, 6; *jucunda*, Cap., Coll. Gatto. *Limobius borealis*, Payk., Ta Baldu, 5. *Pachytichius squamosus*, Gyll., Salina, 5. *Smicronyx cyaneus*, Gyll., Gbir, 10; *jungermanniæ*, Reich.\*, general. *Orthochaetes setiger*, Beck, Coll. J. J. W. *Cherorrhinus squalidus*, Fairm., Coll. J. J. W. *Mesites pallidipennis*, Boh., Valletta, 6; *curripes*, Boh., Ghirghenti, 8. *Codiosoma spadix*, Hbst.\*, Boschetto, 6. *Aralles ptinoides*, Marsh., Coll. J. J. W.; *diocletianus*, Germ., Jniena, 10. *Celiodes cardui*, Hbst., rifle range, 5. *Ceuthorrhynchidius troglodytes*, F.\*, rifle range, 5. *Ceuthorrhynchus peregrinus*, Gyll., L'Intahlep, 5; *rugulosus*, Hbst.\*, rifle range, 5; *melanostictus*, Marsh., rifle range, 5; *qualridens*, Panz.\*, rifle range, 5; *melitensis*, Schultze\*, rifle range, 5. *Baris timida*, Rossi, Coll. J. J. W.; *spoliata*, Boh.\*, Marsa, 5, Melleha, 11; *cærulescens*, Scop., Coll. J. J. W.; *picturata*, Mén., Marsa, 7, one example. *Sphenophorus piccus*, Pall., here and there; *abbreviatus*, F., Ghirghenti, 3, El Klia, 6. *Calantra granaria*, L., general; *oryzæ*, L.\*, general. *Anthonomus ornatus*, Reiche, Zibbih, 6. *Tychius grenieri*, Bris., Coll. J. J. Walker; *meliloti*, Steph.\*, general; *tomentosus*, Hbst., Ta Baldu, 6. *Sibinia primita*, Hbst.\*, Boschetto, 6; *arenariæ*, Steph.\*, Marsa, 6; *attalica*,



Gyll., ex J. J. Walker's Coll. *Rhamphus pulicarius*, Hbst., Ta Baldu, 5. *Merinus pyraister*, Hbst.\*, Floriana, rifle range, 5; *circulatus*, Marsh., an example in Mr. E. A. Newbery's Collection obtained by P. de la Garde. *Gymnetron simum*, Rey \*, Coll. Gatto. *Nanophyes hemisphæricus*, Ol.\*, El Klia, 7; *nitidulus*, Gyll., Boschetto, 6. *Apion carduorum*, Kirb., v. *galactitis*, Wenck.\*, common everywhere; v. *meridianum*, Wenck., common everywhere; *penetrans*, Wenck., Boschetto, 7; *detritum*, Rey, Gozo, 6; *robusticornis*, Desbr., Coll. J. J. W.; *brisouti*, Bed., Jniena, 6; *semivittatum*, Gyll.\*, everywhere; *rufescens*, Gyll., everywhere; *æneum*, F., Coll. Gatto; *radiolus*, Marsh., Gozo, 7, Ta Baldu, 5; *pubescens*, Kirb., Ghirghenti, 8; *rufirostre*, F.\*, L'Imtahlep, 5, Marsa, 6; *dentipes*, Gerst., Jniena, 5; *apricans*, Hbst.\*, everywhere; *pisi*, F., Boschetto, 5; *vorax*, Hbst., Boschetto, 5; *frumentarium*, L., near Valletta, one example; *malvæ*, F.\*, Gbir, L'Imtahlep, 5; *violaceum*, Kirby\*, Jniena, 6. *Rhynchites præustus*, Boh., Ta Baldu, 6.

## ANTHRIBIDÆ.

*Urodon canus*, Küst.\*, L'Imtahlep, 5; *Cercomorphus duvali*, Perris, Ghirghenti, 5, one example.

## MYLABRIDÆ (= BRUCHIDÆ, olim).

*Mylabris (Bruchus) pisorum*, L.\*, general; *pallidicornis*, Boh., Coll. J. J. W.; *ulicis*, Rey, L'Imtahlep, 5; *tristis*, Boh., L'Imtahlep; *sertata*, Ill., Jniena, 6; *rufipes*, Hbst., general; *rufimana*, Boh.\*, general; v. *velutina*, Rey, Coll. J. J. W.; *laticollis*, Boh., L'Imtahlep, 5; *chinensis*, L., Coll. Gatto; *5-guttata*, Ol., Ghirghenti, Salina, 6; v. *meleagrina*, Gené, Ghirghenti, Salina; *seminaria*, L., v. *picipes*, Germ.\*, Boschetto, L'Imtahlep, 5, 6; *albolineata*, Blanch., Coll. Gatto; *biguttata*, Ol., Jniena, Concessione, 6; v. *fulvipennis*, Germ., Jniena, Concessione, St. Paul's Bay, 6; v. *meudicans*, Ws., Jniena, Concessione, 6; *murina*, Boh., Ghirghenti, 8; *bimaculata*, Ol.\*, Marsa Scala, 8; *imbricornis*, Panz., everywhere; *anxia*, Fahrs., ? district, 5; *pygmaea*, Boh., Coll. J. J. W.; *ovalis*, Blanch., L'Imtahlep, 5. *Spermophagus cardui*, Boh., Ghirghenti, Marsa, 8.

## SCOLYTIDÆ.

*Hylesinus fraxini*, Panz.\*, Ghirghenti. *Scolytus scolytus*, F., Coll. J. J. W. *Phloeotribus scaraboides*, Bern., Marsa Scirocco, 8, 9. *Hypoborus ficus*, Er.\*, Marsa Scirocco, 9.

## CERAMBYCIDÆ.

*Cerambyx cerdo*, L., dockyard; *miles*, Bon.\*, Marsa Scirocco, Jniena, 6. *Hesperophanes cinereus*, Villers, Notabile, Marsa Scirocco, 9. *Callidium violaceum*, L., very rare. *Hylotrupes bajulus*, L., dockyard, 5. *Rhopalopus clavipes*, F., very rare. *Liagrica timida*, Mén., here and there. *Clytanthus varius*, F., Boschetto, 6. *Parmena solieri*, Muls., Marsa Scala, 11. *Niphona picticornis*, Muls., Marsa Scala, 8. *Calamobius filum*, Rossi, Ta Baldu, Ghirghenti, L'Imtahlep, 5. *Agapanthia asphodeli*, Lat.\*, common, 1, 2; *cyaraæ*, Germ., Fort Manoel, Corradino, 2, 3; *cardui*, L., L'Imtahlep, 6. *Saperda punctata*, L., Valletta. (*Oberca erythrocephala*, Schr., v. *melitana*, Reiche).

## CHRYSOMELIDÆ.

*Lema melampa*, L.\*, pretty general. *Crioceris paracanthesis*, L., Marsa Scirocco, 6. *Labidostomis tavicornis*, F.\*, pretty general. *Cryptocephalus signaticollis*, Suff.\*, Jniena, 6; *ochroleucus*, Fairm., Marsa Scala, 8. *Pachnophorus impressus*, Rosh., Jniena, 10; *cylindricus*, Luc., Jniena, 11. (*Timarcha melitensis*, Ws.) *Chrysomela banksi*, F., here and there, 10, 11; *variolosa*, Pet.\*, here and there, 10; *erythromera*, Luc.\*, Melleha, 11, rare; *quadrigemina*, Suff., Gbir, 11; *didymata*, Scrib., Zibbih, 10; *bicolor*, F., Coll. Gatto; *americana*, L.\*, here and there, 3, 6; *grossa*, F.\*, Notabile, 9. *Prasocuris distincta*, Luc., v. *marginicollis*, Suff., Jniena, 11. *Aulocophora abdominalis*, F.\*, general. *Podagriva semirufa*, Küst.\*, general. *Crepidodera impressa*, F., Jniena, 6. *Ochrosis ventralis*, Ill., general. *Chwtocnema tibialis*, Ill., Melleha, 10, 11; *aridula*, Gyll.\*, Gbir, 10. *Psylliodes inflata*, Reiche\*, Fort Manoel, 10; *chrysocephala*, L., L'Imtahlep, Boschetto, 5; v. *nucca*, Ill., Coll. J. J. W.; *napi*, F., Jniena, 6; *pallidipennis*, Rosh.\*, Binjemma, 10. *Phyllotreta rugifrons*, Küst., Ta Baldu, 6; *lativittata*, Kütsch.\*, Ghirghenti, 9; *cruciferaæ*, Goeze, Ta Baldu; *consobrina*, Curt., Gozo, L'Imtahlep, 5; *proccra*, Redt.\*, general. *Aphthona flaviceps*, All.\*, Marsa Scala, 8; *nigriceps*, Redt.\*, Ta Baldu, 10; *pygmaæu*, Kütsch.\*, general; *euphorbiæ*, Schr., Ghirghenti, 8. *Longitarsus echii*, Koch\*, 5; *æneus*, Kütsch.; *corynthius*, Reiche\*, 5; *brunneus*, Duft., St. Paul's Bay, 4; *luridus*, Scop., St. Paul's Bay, 11; *stragulatus*, Foudr.\*, Coll. Gatto; *lateripunctatus*, Rosh., Ta Baldu, 10; *exoletus*, L., L'Imtahlep; *lycopi*, Foudr.\*, Jniena, 6; *prutensis*, Panz.,

Gbir, 10; v. *minima*, Kütseh., Gbir; *tabidus*, F., Birchicara, 7; *æruiginosus*, Foudr., L'Imtahlep, 6; *ochroleucus*, Marsh., L'Imtahlep, 5; *pellucidus*, Foudr., Birchicara, 7; *membranaceus*, Foudr., general, 5; *cerinus*, Foudr., Gbir, 5. *Dibolia occultans*, Koch, L'Imtahlep, 6. *Sphæroderma testaceum*, F., Boschetto, 10; *ocularia*, All., Ghirghenti, 8. *Cassida vittata*, Vill., on *Atriplex*, 5, 6; *hemisphærica*, Hbst., Ghirghenti, 8.

## COCCINELLIDÆ.

*Epilachna chrysomelina*, F., common. *Coccinella 7-punctata*, L.\*, common; *11-punctata*, L., Barracca, 5; *10-punctata*, L., Boschetto, Ta Baldu, 10. *Chilocorus bipustulatus*, L., pines, Boschetto, 6. *Ecochomus 4-pustulatus*, L., Floriana, 10. *Rhizobius litura*, F., general; v. *discomacula*, Costa\*, Jniena, 10. *Scymnus subvillosus*, Goeze, v. *pubescens*, Panz., and *pallidivestis*, Muls., general; *arcuatus*, Rossi, v. *hausmanni*, Gredl., Gozo, 6, rare; *punctillum*, Ws., Gbir, 9; *interruptus*, Goeze, everywhere, 7; v. *basalis*, Redt., Salina, Gozo, 6; *kiesenwetteri*, Muls., here and there, rare; *pulchellus*, Hbst., St. Paul's Bay, 8; *bipunctatus*, Kugel., Binjemma, 10.